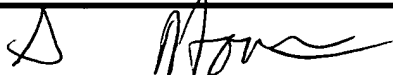
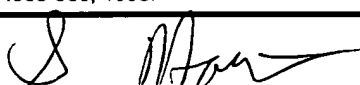


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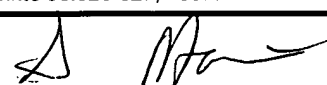
Sheet 1 of 3

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SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket No. Serial No. Applicant Filing Date Group IDS Filed		50154/002002 09/496,231 Jeffrey A. Hubbell et al. February 1, 2000 Not Yet Assigned July 31, 2000	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)							
(37 CFR §1.98(b))							
U.S. PATENTS							
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)	
SH	5,268,305	12/07/93	Ribi et al.	436	501		
	5,330,911	7/19/94	Hubbell et al.	435	240.243		
	5,427,915	6/27/95	Ribi et al.	435	7.92		
	5,446,090	8/29/95	Harris	525	54.1		
	5,567,422	10/22/96	Greenwald	424	78.3		
	5,635,207	6/3/97	Grinstaff et al.	424	450		
	5,752,974	5/19/98	Rhee et al.	606	214		
	5,874,500	2/23/99	Rhee et al.	525	54.1		
	5,897,955	4/27/99	Drumheller	428	422		
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)	
SH	WO 95/13312	18.05.95	PCT				
	WO 97/22371	26.06.97	PCT				
	WO 99/22770	14.05.99	PCT				
	WO 99/34833	15.7.99	PCT				
	WO 99/14259	25.3.99	PCT				
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)							
SH	Ballini et al., "Amberlyst A-27, an Efficient Heterogeneous Catalyst for the Michael Reactions of Nitroalkanes with $\beta$ -Substituted Alkene Acceptors," <i>J. Org. Chem.</i> 61:3209-3211, 1996.						
SA	Boyland et al., "Enzymes Catalysing Conjugations of Glutathione with Alpha-beta-unsaturated Carbonyl Compounds," <i>Biochem. J.</i> 109:651-661, 1968.						
EXAMINER				DATE CONSIDERED 12/00			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.							

SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE		Attorney Docket No. 50154/002002  Serial No. 09/496,231  Applicant Jeffrey A. Hubbell et al.  Filing Date February 1, 2000  Group Not Yet Assigned  IDS Filed July 31, 2000
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		
(37 CFR §1.98(b))		
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)		
St	Chasseaud, "Distribution of Enzymes that Catalyse Reactions of Glutathione with Alpha Beta-unsaturated Compounds," <i>Biochem. J.</i> 131:765-769, 1973.	
I	Eisele et al., "Kinetics of Photocrosslinking Reactions of a DCPA/EA Matrix in the Presence of Thiols and Acrylates," <i>J. Polym. Sci., Polym. Chem. Ed.</i> 35:2333-2345, 1997.	
	Fan et al., "Molecular Recognition and Catalysis: Incorporation of an 'Oxyanion Hole' into a Synthetic Receptor," <i>New J. Chem.</i> 21(1):81-85, 1997.	
	Friedman et al., "Relative Nucleophilic Reactivities of Amino Groups and Mercaptide Ions in Addition Reactions with $\alpha,\beta$ -Unsaturated Compounds," <i>J. Am. Chem. Soc.</i> 87(16):3672-3682, 1965	
	Ghandehari et al., "In Vitro Degradation of pH-sensitive Hydrogels Containing Aromatic Azo Bonds," <i>Biomaterials</i> 18:861-872, 1997.	
	Hern et al., "Incorporation of Adhesion Peptides into Non-adhesive Hydrogels Useful for Tissue Resurfacing," <i>J. Biomed. Mater. Res.</i> 39:266-276, 1998.	
	Hirai et al., "pH-induced Structure Change of Poly(vinyl alcohol) Hydrogel Crosslinked with Poly(acrylic acid)," <i>Die Angewandte Makromolekulare Chemie</i> 240:213-219, 1996.	
	Ishihara et al., "Tris(pentafluorophenyl)boron as an Efficient, Air Stable, and Water Tolerant Lewis Acid Catalyst," <i>Bull. Chem. Soc. Jpn.</i> 68:1721-1730, 1995.	
	Kawai et al., "New Application of Solid Acid to Carbon-Carbon Bond Formation Reactions: Clay Montmorillonite-Catalyzed Aldol Reactions of Silyl Enol Ethers with Aldehydes and Acetals," <i>Bull. Chem. Soc. Jpn.</i> 61:1237-1245, 1988.	
	Kito et al., "Biocompatible Coatings for Luminal and Outer Surfaces of Small-caliber Artificial Grafts," <i>Journal of Biomedical Materials Research</i> 30:321-330, 1996.	
	Mathur et al., "Methods for Synthesis of Hydrogel Networks: A Review," <i>Journal of Macromolecular Science-Reviews in Macromolecular Chemistry and Physics</i> C36(2):405-430, 1996.	
	Moghaddam et al., "Molecular Design of 3-Dimensional Artificial Extracellular-matrix - Photosensitive Polymers Containing Cell Adhesive Peptide," <i>Journal of Polymer Science: Part A: Polymer Chemistry</i> 31:1589-1597, 1993.	
✓	Morpurgo et al., "Preparation and Characterization of Poly(ethylene glycol) Vinyl Sulfone," <i>Bioconjugate Chem.</i> 7:363-368, 1996.	
EXAMINER		DATE CONSIDERED 12/00
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.		

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OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)		
SH	Pato et al., "Polymers Containing Enzymatically Degradable Bonds, 9 <sup>a</sup> ) Chymotrypsin Catalyzed Hydrolysis of a p-nitroanilide Drug Model, Bound Via Oligopeptides onto Poly(vinylpyrrolidone-co-maleic anhydride)," <i>Makromol. Chem.</i> 185:231-237, 1984.	
	Pathak et al., "Rapid Photopolymerization of Immunoprotective Gels in Contact with Cells and Tissue," <i>Journal of the American Chem. Society</i> 114:8311-8312, 1992.	
	Petka et al., "Reversible Hydrogels from Self-Assembling Artificial Proteins," <i>Science</i> 281:389-392, 1998.	
	Romanowska et al., "Michael Additions for Syntheses of Neoglycoproteins," <i>Methods in Enzymol.</i> 242:90-101, 1994.	
	Sawhney et al., "Bioerodible Hydrogels Based on Photopolymerized Poly(ethylene glycol)-co-poly( $\alpha$ -hydroxy acid) Diacrylate Macromers," <i>Macromolecules</i> 26:581-587, 1993.	
	Tanaka et al., "Michael-type Addition of Illudin S, a Toxic Substance from <i>Lampteromyces japonicus</i> , with Cysteine and Cysteine-containing Peptides <i>In Vitro</i> ," <i>Chem. Pharm. Bull.</i> 44:273-279, 1996.	
	West et al., "Comparison of Covalently and Physically Cross-linked Polyethylene Glycol-based Hydrogels for the Prevention of Postoperative Adhesions in a Rat Model," <i>Biomaterials</i> 16:1153-1156, 1995.	
↓	Zhao et al., "Novel Degradable PEG Esters for Drug Delivery: Synthesis and Characterization," <i>Polymer Reprints</i> 38:526-527, 1997.	
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